

## ABSTRACT:

The invention relates to a bus system comprising a first station and a second station coupled by a bus for transferring signals. The bus is arranged to operate according to a protocol in which said first station repeatedly sends requests for data to the second station. The protocol comprises a first mode for transferring the requests in a first request format at a first communication speed and at least a second mode for transferring said requests in a second request format at a second speed. The second station is arranged to receive requests in a mode selected from a group of modes comprising said first and second modes, and is arranged to give a first indication to said first station if it is arranged to operate according to the first mode and a second indication if it is arranged to operate according to the second mode. The first station comprises a processor, a controller, and a translator. The processor is operable to generate request properties for requests in the first request format. The controller is operable to generate the requests in the first request format from the request properties. The controller is also operable to transmit the request in the first format to the second station upon detection of the first indication and to forward the requests to the translator upon detection of the second indication. The translator is also operable to transmit the requests in the second format to the second station.

Fig. 1